

Abstract

A frame relay device includes a table where an entry containing a combination of an MAC address and an IP address is registered to be used in the frame relay processing of a local device. Moreover, the frame relay device includes judgment means for searching the table by the transmission origin MAC address and the transmission origin IP address contained in the frame received and judging whether the combination of the transmission origin addresses is registered as a relay object in the layer 3. Furthermore, the frame relay device includes layer 3 relay processing means for performing layer 3 relay processing only for the frame which has been judged to contain the combination of the transmission origin addresses as a relay object.